

S.I. 2012 No. 43

Agricultural, Diagnostic and Other Services (Fees) Act
Cap. 252A

AGRICULTURAL, DIAGNOSTIC AND OTHER SERVICES
(FEES) (AMENDMENT) ORDER, 2012

The Minister, in exercise of the powers conferred on him by section 3 of the *Agricultural, Diagnostic and Other Services (Fees) Act*, makes the following Order:

1. This Order may be cited as the *Agricultural, Diagnostic and Other Services (Fees) (Amendment) Order, 2012*.

2. The *Agricultural, Diagnostic and Other Services (Fees) Order* is amended by deleting Part B of the Schedule and substituting the following:

SCHEDULE

“PART B

GOVERNMENT ANALYTICAL SERVICES

(Paragraph 2)

PARTICULARS	FEE
1. Test on a sample of water to determine the levels of:	\$
(a) Alkalinity	25.00
(b) Ammonia-N	45.00
(c) Bicarbonate	25.00
(d) Biochemical Oxygen Demand (BOD) with or without Dissolved Oxygen (DO)	50.00
(e) Calcium	30.00

SCHEDULE – *Cont'd*PART B – *Cont'd*

PARTICULARS	FEE
	\$
1. Test on a sample of water to determine the levels of:	
– <i>Cont'd</i>	
(f) Carbonates	25.00
(g) Chemical Oxygen Demand (COD)	45.00
(h) Chloride by Titration	25.00
(i) Chloride, Nitrate-Nitrogen, Sulphate by Ion Chromatography either separately or in combination	45.00
(j) Chromium	30.00
(k) Copper	30.00
(l) Dissolved Iron	30.00
(m) Dissolved Manganese	30.00
(n) Electrical Conductivity	15.00
(o) Lead	30.00
(p) Manganese	30.00
(q) Magnesium	30.00
(r) Mercury	40.00
(s) Nitrate-Nitrogen by Cadmium Reduction	50.00
(t) Nitrite-Nitrogen	45.00
(u) Ortho-Phosphorus	45.00
(v) pH	15.00
(w) Potassium	30.00
(x) Sodium	30.00
(y) Sulphate by Turbidity	45.00

SCHEDULE – *Cont'd*

PART B – *Cont'd*

PARTICULARS	FEE
	\$
1. Test on a sample of water to determine the levels of:	
– <i>Concl'd</i>	
(z) Total Dissolved Solids (TDS)	30.00
(aa) Total Hardness	30.00
(bb) Total Iron	30.00
(cc) Total Kjeldahl Nitrogen	40.00
(dd) Total Manganese	30.00
(ee) Total Phosphorus	45.00
(ff) Total Solids	30.00
(gg) Total Suspended Solids (TSS)	30.00
(hh) Zinc	30.00
(ii) Total Suspended Solids & Volatile Solids	50.00
(jj) Turbidity	15.00
(kk) Dissolved Oxygen (DO)	15.00
(ll) Total Nitrogen	45.00
(mm) Trace metals by graphite furnace	50.00 (per metal)
(nn) Silica by colorimetry	45.00
2. Test on a sample of soil to determine the levels of:	
(a) Alkalinity	25.00
(b) Ammonia-N	45.00
(c) Available Iron, Copper, Zinc, Manganese	90.00

SCHEDULE – *Cont'd*PART B – *Cont'd*

PARTICULARS	FEE
	\$
2. Test on a sample of soil to determine the levels of: – <i>Cont'd</i>	
(d) Calcium Carbonate	30.00
(e) Cation Exchange Capacity (CEC)	60.00
(f) Chloride by Titration	25.00
(g) Electrical Conductivity	15.00
(h) Exchangeable Sodium, Potassium, Calcium, Magnesium	90.00
(i) Extractable Potassium, Magnesium	60.00
(j) Mechanical analysis	30.00
(k) Nitrate, Phosphorus, Potassium (NPK)	100.00
(l) Organic matter	45.00
(m) Particle size	45.00
(n) pH	15.00
(o) Phosphorus (Olsen)	45.00
(p) Soluble Potassium	30.00
(q) Soluble Sodium	30.00
(r) Sulphates	45.00
(s) Total Kjeldahl Nitrogen	40.00
(t) Trace metals, digestion followed by AA flame/ graphite furnace	60.00 (per metal)

SCHEDULE – *Cont'd*

PART B – *Cont'd*

PARTICULARS	FEE
	\$
3. Test on a sample of foliage to determine the levels of:	
(a) Nitrogen	50.00
(b) Phosphorus	50.00
(c) Potassium	50.00
(d) Sodium	50.00
(e) Trace Metals	30.00 (per metal)
4. Test on a sample of fertilizer to determine the levels of:	
(a) Phosphorus	50.00
(b) Potassium	50.00
(c) Total Nitrogen	50.00
(d) Trace Metals	30.00 (per metal)
5. Test on a sample of waste water to determine the levels of:	
(a) Total Phosphorus	45.00
(b) Total Metals (maximum of 4 trace metals)	90.00

SCHEDULE – *Cont'd*

PART B – *Cont'd*

PARTICULARS	FEE
	\$
<p>6. Test on a sample of water to determine composite:</p> <p>(a) pH</p> <p>(b) Electrical conductivity</p> <p>(c) Sodium</p> <p>(d) Potassium</p> <p>(e) Calcium</p> <p>(f) Magnesium</p> <p>(g) Chloride</p>	120.00
<p>7. Test on:</p> <p>(a) one sample of water as at 6 above plus a maximum of 5 trace metals</p> <p>(b) 10 or more samples in the same batch</p>	240.00 10% discount
<p>8. Test on a sample of water to determine the level of the following pesticide residues or petroleum hydrocarbons using Gas Chromatography or High Performance Liquid Chromatography:</p> <p>(a) 2, 4-D Amine</p> <p>(b) Atrazine/Ametryne/Deethylatrazine/Deisopropylatrazine</p> <p>(c) Fuel Fingerprint</p> <p>(d) Benzene, Toluene, Ethyl Benzene, Xylene (BTEX)</p> <p>(e) Gramoxone</p>	100.00 105.00 115.00 95.00 90.00

SCHEDULE – *Cont'd*

PART B – *Cont'd*

PARTICULARS	FEE
	\$
9. Test on a sample of soil or vegetable matter to determine the level of the following pesticide residues or petroleum hydrocarbons using Gas Liquid Chromatography or High Performance Liquid Chromatography:	
(a) 2, 4-D Amine	150.00
(b) Atrazine/Ametryne/Deethylatrazine/Deisopropylatrazine	150.00
(c) Fuel Fingerprint	95.00
(d) Benzene, Toluene, Ethyl Benzene, Xylene (BTEX)	95.00
10. Test on a sample of water or soil to determine the levels of the following residues using Ultra-Violet or Infra-red Spectroscopy:	
(a) Oils and Grease	80.00
(b) Surfactants	60.00
(c) Gramoxone	90.00
(d) Chlorophyll	60.00

SCHEDULE – *Cont'd*

PART B – *Cont'd*

PARTICULARS	FEE
	\$
11. Test on a sample of water to determine the level of the following micro-organisms:	
(a) Total coliform by Membrane Filtration (MF)	25.00
(b) Total coliform by Multiple Tube Fermentation (MTF)	20.00
(c) Total coliform and <i>Escherichia coli</i> by rapid chromogenic/fluoregenic substrate method	35.00
(d) Total coliform confirmation test	10.00
(e) Faecal coliform by Membrane Filtration	25.00
(f) Faecal coliforms by Multiple Tube Fermentation	20.00
(g) Faecal coliform confirmation test	10.00
(h) <i>Escherichia coli</i> with Total coliforms	40.00
(i) <i>Escherichia coli</i> confirmation test	10.00
(j) Total coliforms and Faecal coliforms confirmation tests for MF method	15.00
(k) Total coliforms and Faecal coliforms and <i>Escherichia coli</i> confirmation tests for MF method	20.00
(l) Faecal streptococcus by Membrane Filtration	25.00
(m) Faecal streptococcus by Multiple Tube Fermentation	20.00
(n) Faecal streptococcus confirmation test	15.00

SCHEDULE – *Cont'd*

PART B – *Cont'd*

PARTICULARS	FEE
	\$
11. Test on a sample of water to determine the level of the following micro-organisms: – <i>Cont'd</i>	
(o) Enterococcus by Membrane Filtration	40.00
(p) Enterococcus by Multiple Tube Fermentation	20.00
(q) Enterococcus by Rapid Method	35.00
(r) Enterococcus confirmation test	20.00
(s) <i>Pseudomonas aeruginosa</i> by Membrane Filtration	25.00
(t) <i>Pseudomonas aeruginosa</i> confirmation test for MF method	15.00
(u) <i>Pseudomonas aeruginosa</i> by Multiple Tube Fermentation	25.00
(v) <i>Pseudomonas aeruginosa</i> confirmation test for MTF method	15.00
(w) <i>Staphylococcus/S.aureus</i> by Membrane Filtration	20.00
(x) Heterotrophic Plate Count (HPC) by Pour Plate Method	25.00
(y) <i>Cryptosporidium & Giardia</i> by the calcium carbonate flocculation method	40.00
(z) Yeasts and Moulds	20.00
(aa) <i>Salmonella sp</i>	30.00
12. Examination of a sample by microscopy to determine the level or presence or absence of micro-organisms.	10.00

SCHEDULE – *Cont'd*PART B – *Cont'd*

PARTICULARS	FEE
13. Test on a soil or sediment sample to determine the level or presence or absence of the following mirco-organisms:	\$
(a) Total coliform by Multiple Tube Fermentation	20.00
(b) Faecal coliform by Multiple Tube Fermentation	20.00
14. Test on a sample of food or drink to determine the presence or absence of:	
(a) Yeast/mould, Bacteria by culturing	25.00
(b) the following organisms:	
(i) <i>Bacillus cereus</i>	40.00
(ii) <i>Campylobacter sp.</i>	45.00
(iii) <i>Clostridium perfringens</i>	40.00
(iv) <i>Staphylococcus aureus</i>	30.00
(v) <i>Salmonella sp.</i>	30.00
(vi) <i>Listeria species</i>	40.00
(vii) <i>E.coli</i> 0157.H7	50.00
15. Test to determine the level of bacteria or yeast/mould in a sample of food or drink:	
(a) Aerobic plate count – pour plate method	25.00
(b) Total coliform count – most probable number method	25.00
(c) Faecal coliform count – most probable number method	25.00

SCHEDULE – *Cont'd*

PART B – *Cont'd*

PARTICULARS	FEE
	\$
15. Test to determine the level of bacteria or yeast/mould in a sample of food or drink: – <i>Cont'd</i>	
<i>(d)</i> <i>Staphylococcus aureus</i> – direct plate count method	40.00
<i>(e)</i> <i>Staphylococcus aureus</i> – most probable number method	30.00
<i>(f)</i> <i>Pseudomonas</i> count – most probable number method	25.00
<i>(g)</i> Coliform count – pour plate method	25.00
<i>(h)</i> Yeast/Mould count – pour plate method	25.00
16. Identification of foreign matter in food or drink by microscopy	20.00
17. Test on a sample of oil or other liquids to determine:	
<i>(a)</i> Specific gravity	15.00
<i>(b)</i> Flash point	20.00
<i>(c)</i> Refractive index	15.00
18. Test on a sample of syrup or other applicable liquid to determine:	
<i>(a)</i> the level of its acidity (pH)	15.00
<i>(b)</i> an estimate of its solids content (°Brix)	15.00
19. Test on an edible oil or fat to determine:	
<i>(a)</i> Specific Gravity	15.00
<i>(b)</i> Refractive Index	15.00
<i>(c)</i> Acid Value	25.00
<i>(d)</i> Iodine number value	25.00

SCHEDULE – *Cont'd*PART B – *Cont'd*

PARTICULARS	FEE
19. Test on an edible oil or fat to determine: – <i>Cont'd</i>	\$
<i>(e)</i> Saponification number value	25.00
<i>(f)</i> Peroxide value	25.00
<i>(g)</i> Fatty acid consumption	90.00
20. Test on a sample of sugar or other optically active substance to determine polarization or optical rotation	35.00
21. Test on a sample of distilled liquid or alcohol to determine:	
<i>(a)</i> Obscuration	30.00
<i>(b)</i> Degree of colouration	50.00
22. Test on a sample of alcohol or alcoholic beverage to determine the level of:	
<i>(a)</i> Alcohol	30.00
<i>(b)</i> Total solids	30.00
<i>(c)</i> Total acids	30.00
<i>(d)</i> Volatile acids	30.00
<i>(e)</i> Total esters	30.00
<i>(f)</i> Total aldehydes	30.00

SCHEDULE – *Cont'd*

PART B – *Cont'd*

PARTICULARS	FEE
	\$
22. Test on a sample of alcohol or alcoholic beverage to determine the level of: – <i>Cont'd</i>	
(g) Congeners – any or all of the following:	
(i) acetaldehyde	90.00
(ii) ethyl acetate	
(iii) methanol	
(iv) n-propyl alcohol	
(v) higher alcohols	
(h) Fusel oils	75.00
(i) Furfural	90.00
(j) Tannin	75.00
(k) Colourant	90.00
23. Test on a sample of food or food product or any other applicable product or substance to determine the content of:	
(a) Moisture	30.00
(b) Fat	30.00
(c) Protein/Total Nitrogen	40.00
(d) Ash	30.00
(e) Crude fibre	40.00
(f) Salt	30.00

SCHEDULE – *Cont'd*PART B – *Cont'd*

PARTICULARS	FEE
	\$
23. Test on a sample of food or food product or any other applicable product or substance to determine the content of: – <i>Cont'd</i>	
(g) Reducing sugars by gravimetric method or titration	30.00
(h) Reducing sugars by HPLC	60.00
(i) Total sugars	30.00
(j) Sucrose gravimetric method	45.00
(k) Sucrose HPLC	60.00
(l) Total Acids	30.00
(m) Total solids	30.00
(n) Water-insoluble solids	30.00
(o) Soluble solids	30.00
(p) Nitrite	45.00
(q) Sulphur dioxide by UV/V spectrometry	50.00
(r) Nitrate	45.00
(s) Phosphorus	45.00
(t) any metallic element using flame atomic absorption spectrometry:	
(i) when significant pre-instrumental sample preparation is required	40.00
(ii) in cases other than (i)	30.00

SCHEDULE – *Cont'd*

PART B – *Cont'd*

PARTICULARS	FEE
	\$
23. Test on a sample of food or food product or any other applicable product or substance to determine the content of: – <i>Concl'd</i>	
<u>(u)</u> Any metallic element using graphite furnace atomic absorption spectrometry:	
(i) when significant pre-instrumental sample preparation is required	75.00
(ii) in cases other than (i)	50.00
<u>(v)</u> Any constituent listed above or any constituent not elsewhere specified or included, using:	
(i) Ultra-violet or visible spectrometry	50.00
(ii) Liquid chromatography (Ion or high performance)	60.00
(iii) Gas chromatography	90.00
(iv) Any means other than (i) – (iii)	40.00
24. Test on a sample for the purpose of its identification or the identification of the constituent thereof, using:	
<u>(a)</u> Infra-red spectrometry	65.00
<u>(b)</u> Liquid chromatography	60.00
<u>(c)</u> Gas chromatography	60.00
<u>(d)</u> Gas chromatography with mass selective detector	120.00
<u>(e)</u> Ultra-violet or visible spectrometry	60.00
<u>(f)</u> Paper or thin layer chromatography	15.00
<u>(g)</u> Any means other than <i>(a) – (f)</i>	20.00

SCHEDULE – *Concl'd*PART B – *Concl'd*

PARTICULARS	FEE
	\$
25. Preparative procedures used in sample analysis:	
(a) Dry ashing (furnace)	10.00
(b) Acid digestion	10.00
(c) Solid phase extraction	15.00
(d) Liquid-liquid extraction	15.00
26. Collection of samples	100.00 (per hour)
27. Use of sampling equipment	30.00".

Made by the Minister this 23rd day of May, 2012.

DAVID C. ESTWICK
Minister responsible for Agriculture.